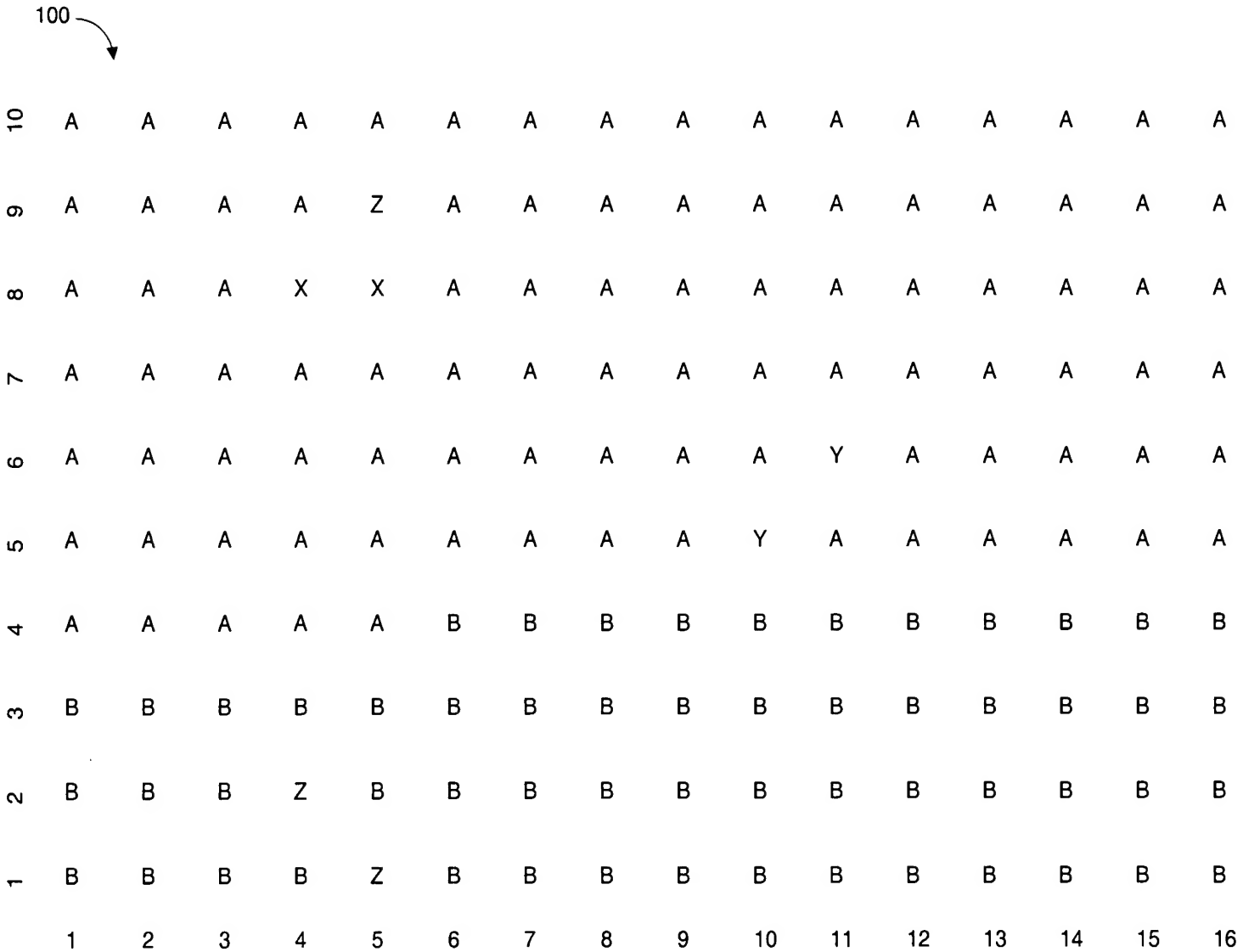
100
10 A A A A A A A A A A A A A A A A
9 A A A A Z A A A A A A A A A A A
8 A A A X X A A A A A A A A A A A
7 A A A A A A A A A A A A A A A A
6 A A A A A A A A A A Y A A A A A
5 A A A A A A A A A Y A A A A A A
4 A A A A A B B B B B B B B B B B
3 B B B B B B B B B B B B B B B B
2 B B B Z B B B B B B B B B B B B
1 B B B B Z B B B B B B B B B B B
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

FIGURE 1A

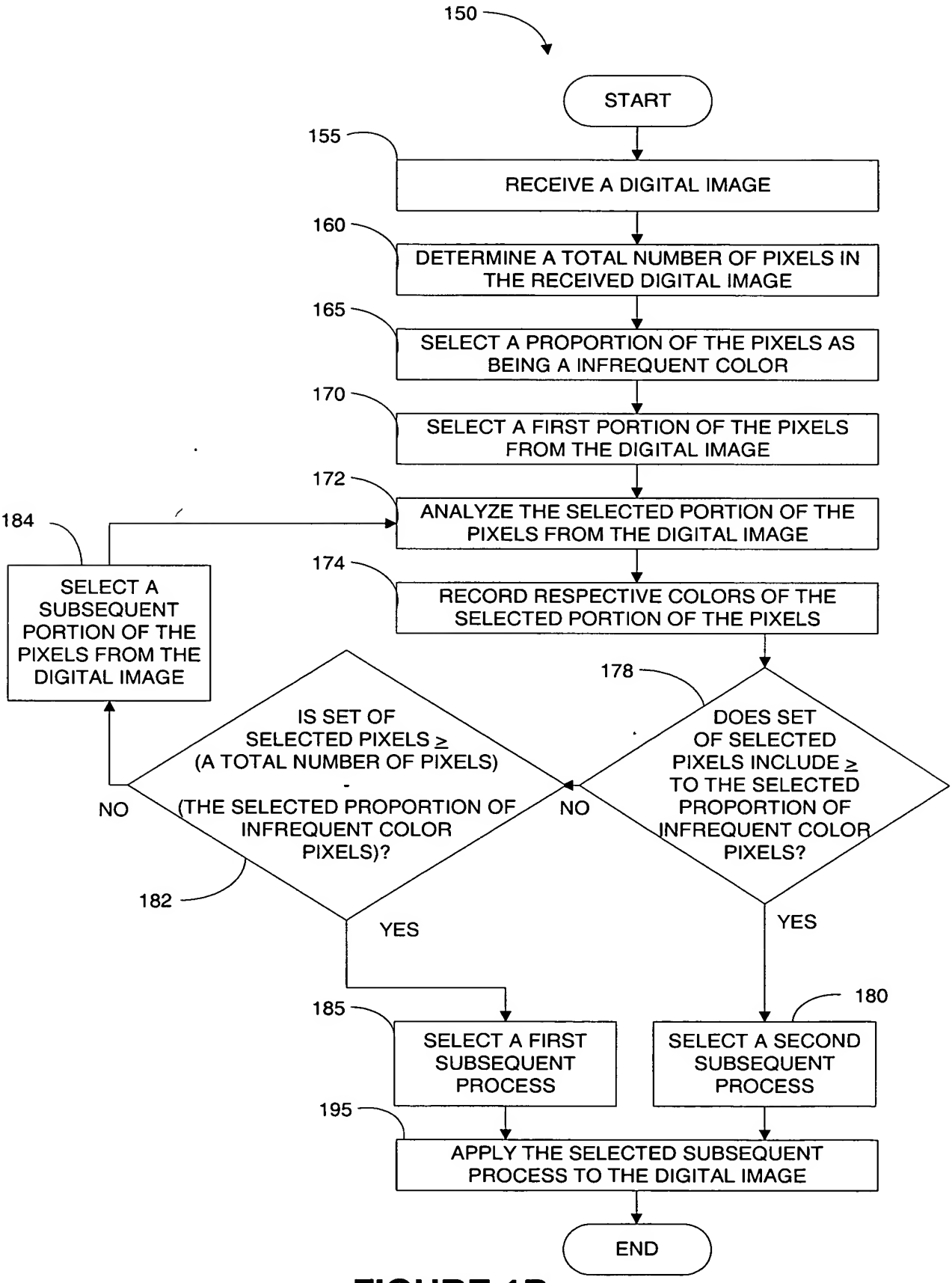
150
START
155
RECEIVE A DIGITAL IMAGE
160
DETERMINE A TOTAL NUMBER OF PIXELS IN THE RECEIVED DIGITAL IMAGE
165
SELECT A PROPORTION OF THE PIXELS AS BEING A INFREQUENT COLOR
170
SELECT A FIRST PORTION OF THE PIXELS FROM THE DIGITAL IMAGE
172
ANALYZE THE SELECTED PORTION OF THE PIXELS FROM THE DIGITAL IMAGE
174
RECORD RESPECTIVE COLORS OF THE SELECTED PORTION OF THE PIXELS
178
DOES SET OF SELECTED PIXELS INCLUDE ≥ TO THE SELECTED PROPORTION OF INFREQUENT COLOR PIXELS?
NO
IS SET OF SELECTED PIXELS ≥ (A TOTAL NUMBER OF PIXELS) - (THE SELECTED PROPORTION OF INFREQUENT COLOR PIXELS)?
182
NO
184
SELECT A SUBSEQUENT PORTION OF THE PIXELS FROM THE DIGITAL IMAGE
YES
YES
180
185
SELECT A FIRST SUBSEQUENT PROCESS
SELECT A SECOND SUBSEQUENT PROCESS
195
APPLY THE SELECTED SUBSEQUENT PROCESS TO THE DIGITAL IMAGE
END

FIGURE 1B

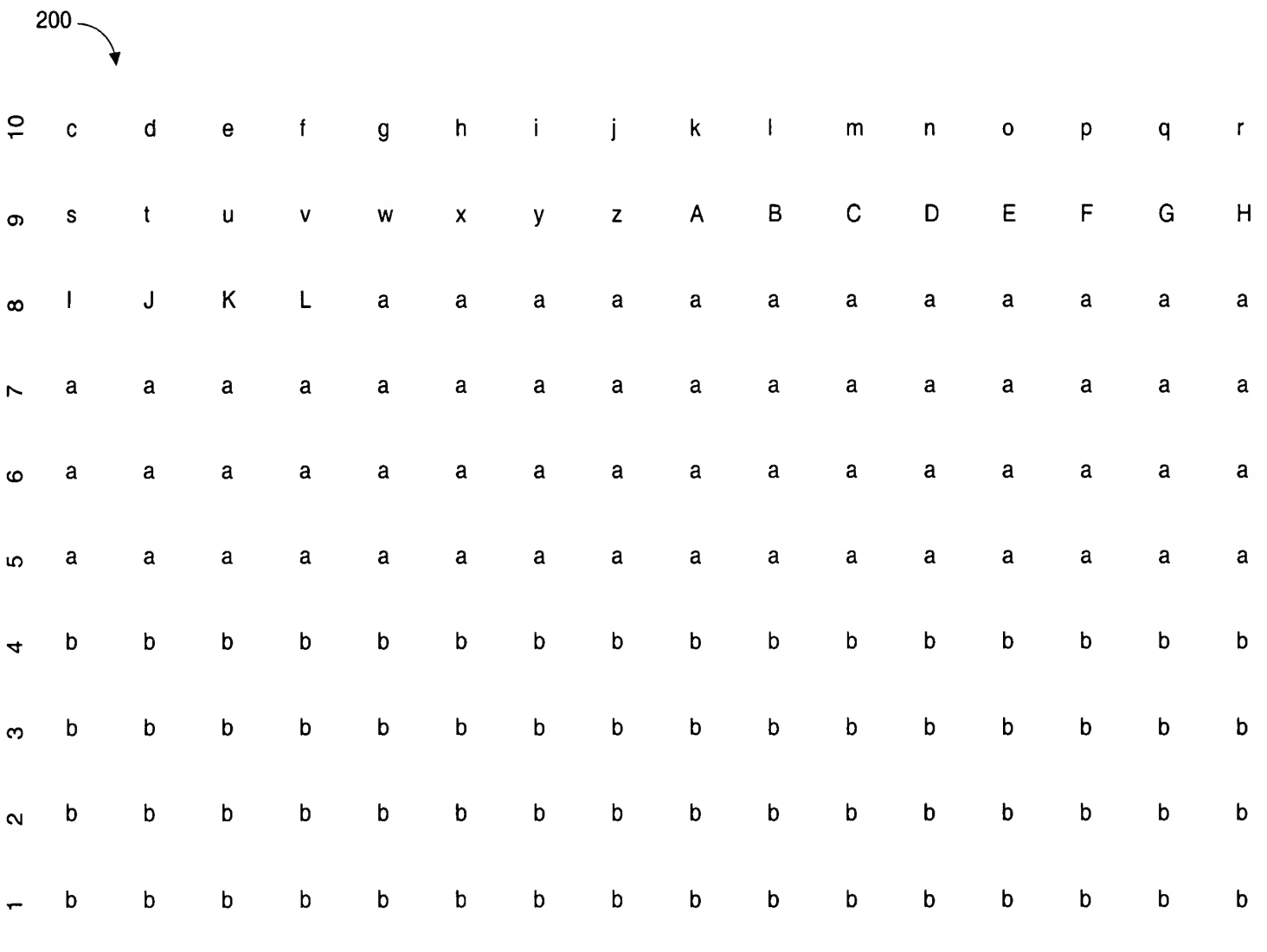
200
10 c d e f g h i j k l m n o p q r
9 s t u v w x y z A B C D E F G H
8 I J K L a a a a a a a a a a a a
7 a a a a a a a a a a a a a a a a
6 a a a a a a a a a a a a a a a a
5 a a a a a a a a a a a a a a a a
4 b b b b b b b b b b b b b b b b
3 b b b b b b b b b b b b b b b b
2 b b b b b b b b b b b b b b b b
1 b b b b b b b b b b b b b b b b
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

FIGURE 2

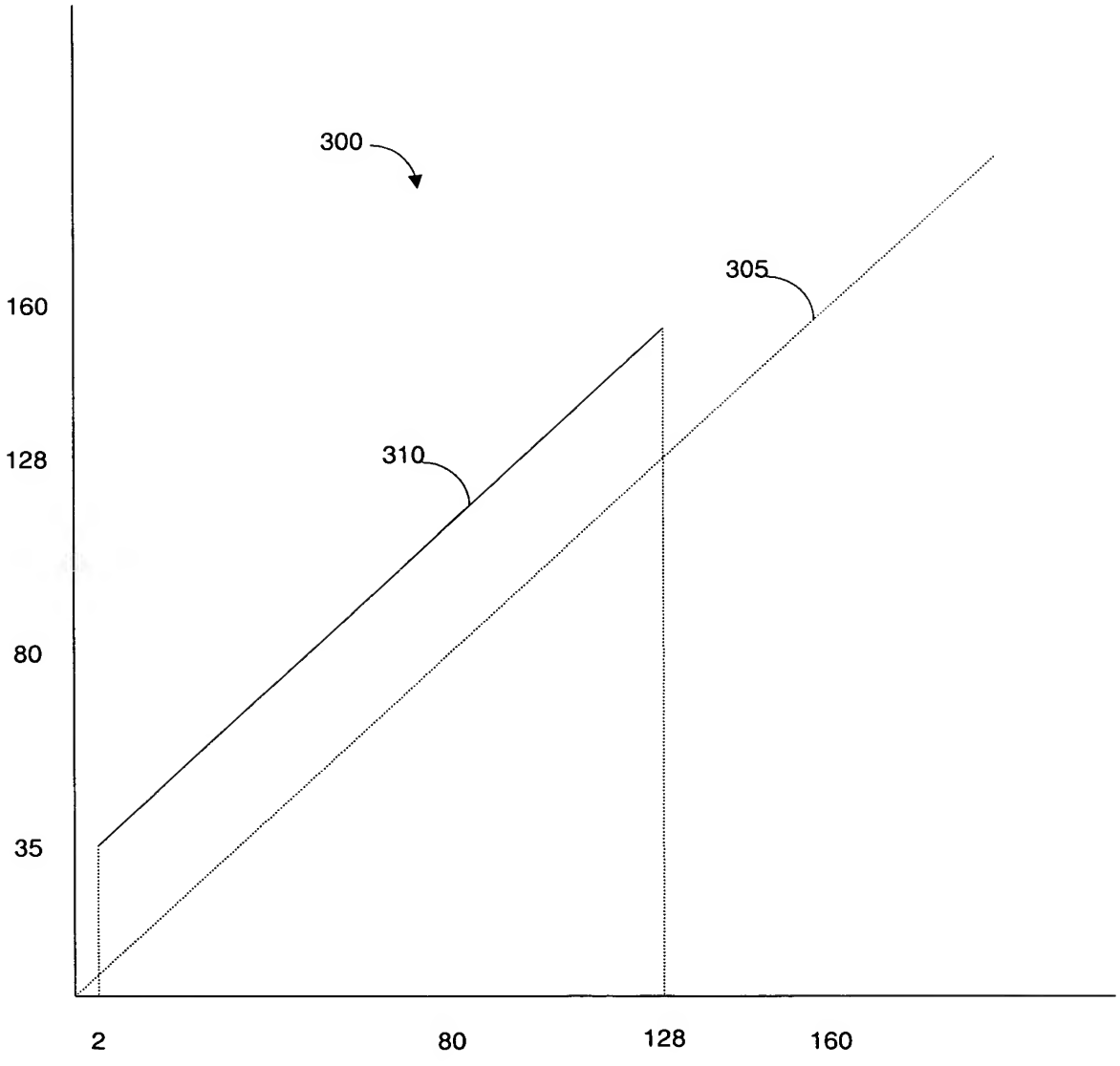

FIGURE 3

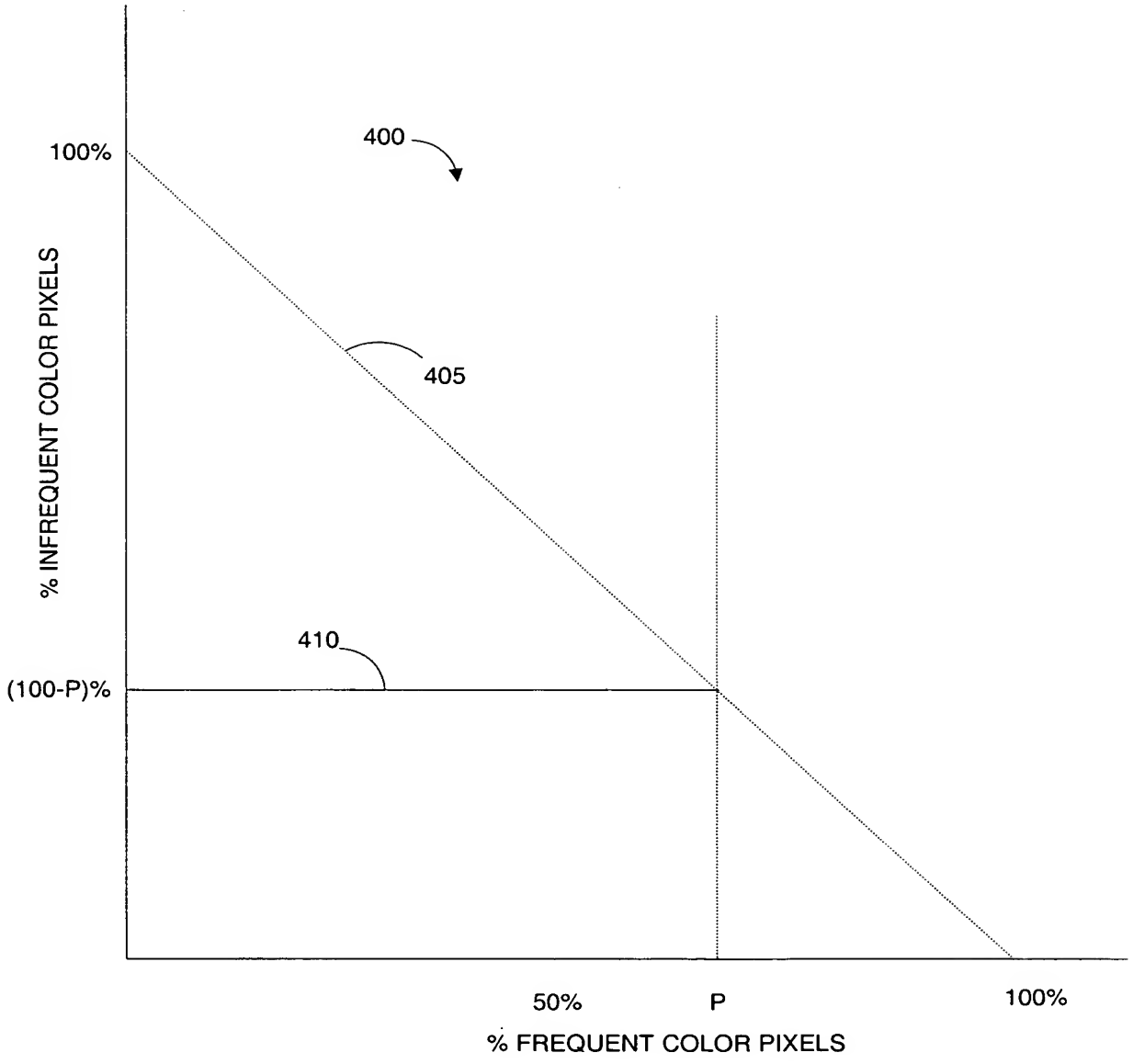
400
100%
405
% INFREQUENT COLOR PIXELS
410
(100-P)%
50%
P
100%
% FREQUENT COLOR PIXELS

FIGURE 4

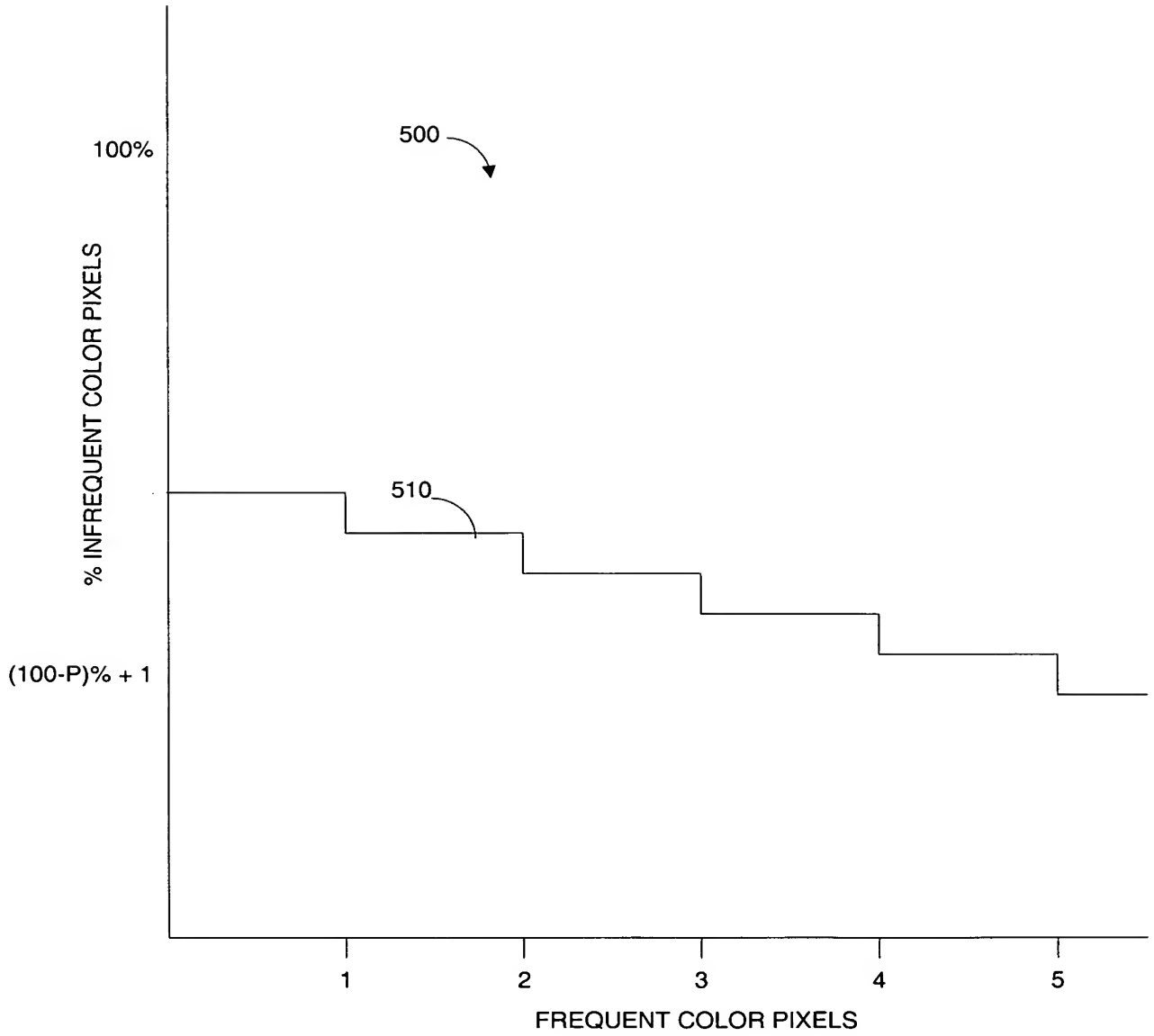
100%
500
% INFREQUENT COLOR PIXELS
510
(100-P)% + 1
1
2
3
4
5
FREQUENT COLOR PIXELS

FIGURE 5

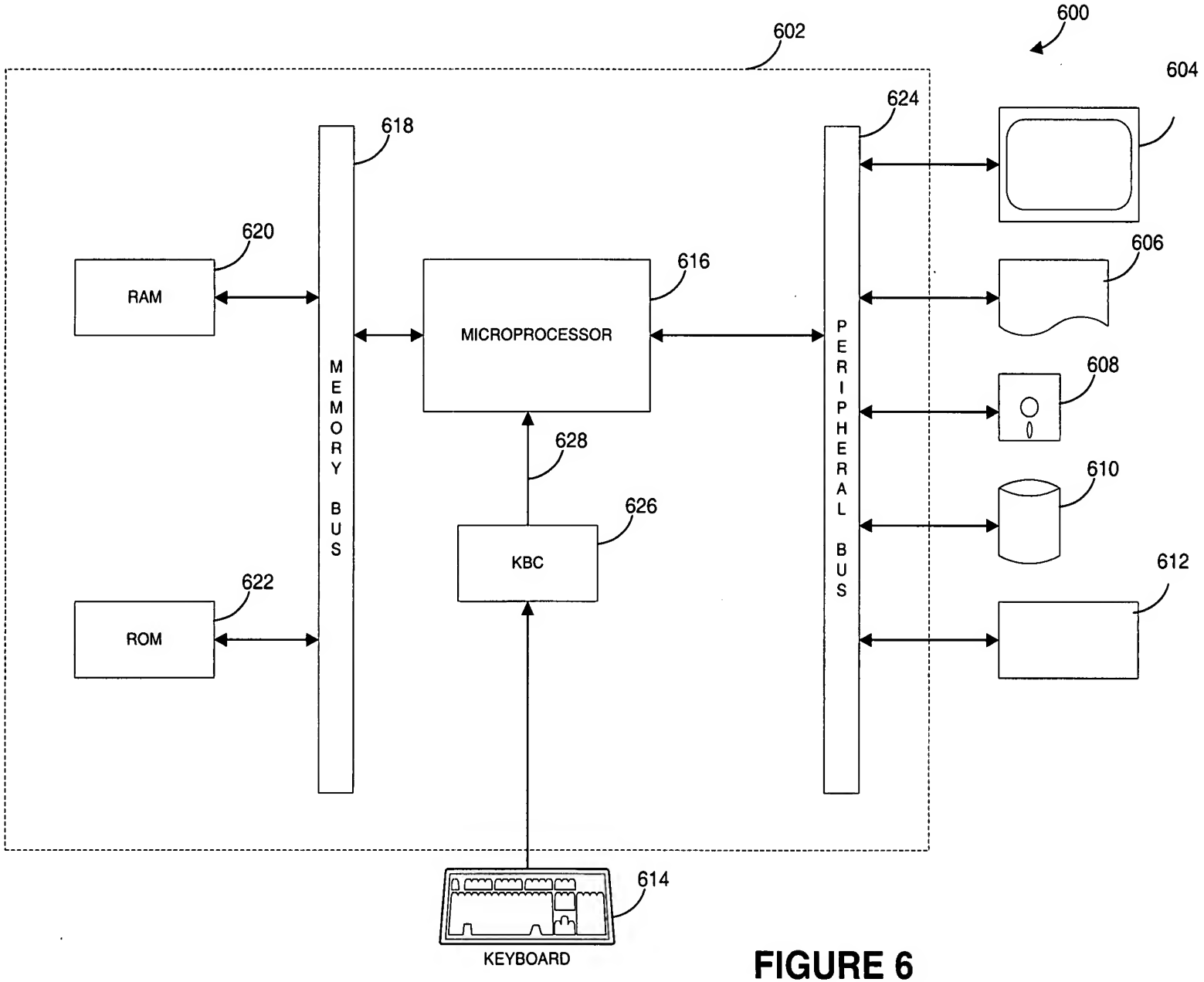
600
602
604
624
618
620
RAM
MEMORY BUS
MICROPROCESSOR
616
PERIPHERAL BUS
606
608
628
626
KBC
610
622
ROM
612
614
KEYBOARD

FIGURE 6